



Customer No. 04249

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Robert S. Oswald) PATENT APPLICATION
Shengzhong Liu)
APPLICATION NO.: 10/726,179) Group Art Unit:
CONFIRMATION NO.:)
FILED: December 2, 2003) Examiner:
FOR: PARTIALLY TRANSPARENT) Attorney Docket No.:
PHOTOVOLTAIC MODULES) 37,235-03

Information Disclosure Statement Pursuant to 37 C.F.R. 1.97-1.98

Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia
22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.97-1.98, Applicants hereby submit documents identified in the enclosed form PTO-1449. These documents were previously of record in the parent application, Serial No. 10/131,859. Applicants are also submitting herewith a copy of the Information Disclosure Statement filed under 37 C.F.R. § 1.97, mailed on November 25, 2002, that was submitted in such parent application. Applicants request that the aforesaid materials be considered in the examination of the above-identified patent application.

Please charge any fees required to Deposit Account No. 01-0528.

Respectfully submitted,

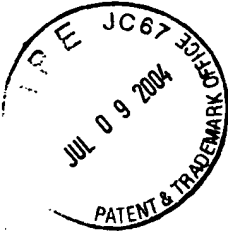
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Thomas E. Nemo
Attorney for the Applicants
Registration Number 630 821-2459

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to: Commissioner of Patents and Trademarks, Alexandria, VA. 22313-1450 on or before 7-6-04

Paralegal, IP Group

Date: 7-6-04



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: ROBERT S. OSWALD and) PATENT APPLICATION
SHENGZHONG LIU)
)
)
)
APPLICATION NO.: 10/131,859) GROUP ART UNIT:
CONFIRMATION NO.: 9483) 2812
)
FILED: APRIL 25, 2002) EXAMINER: VIKTOR
) SIMKOVIC
)
FOR: PARTIALLY TRANSPARENT PHOTOVOLTAIC) ATTORNEY DOCKEY
MODULES) No.: 37,23501

Information Disclosure Statement Under 37 CFR §1.97

Commissioner for Patents
Washington, D.C. 20231

Sir:

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231,
on or before 11-25-02

Cheryl A. Munn
Legal Assistant
11-25-02

Enclosed herewith is an Information Disclosure Citation on Form PTO-1449 along with the cited documents. Applicants request the Examiner to consider these documents in the prosecution of the above-captioned application. Additionally, Applicants respectfully request the Examiner to consider the information provided below in the prosecution of the above-captioned application.

1. In 1990, one of Applicants' assignee's predecessor companies demonstrated to US automobile companies a partially transparent solar sunroof designed for automobiles. The sunroof was made from an amorphous silicon solar module where part of the rear metal contact was removed by laser ablation. In these modules, the rear metal contact was removed in separated holes or dots. There was no disclosure of the process and the demonstrations were done under a confidentiality agreement.
2. As part of a demonstration test, partially transparent, amorphous silicon solar modules, where the partial transparency, in the form of rows of lines of connected holes, was provided by laser ablation were sold for installation at a US university. Price quotes for the modules for this

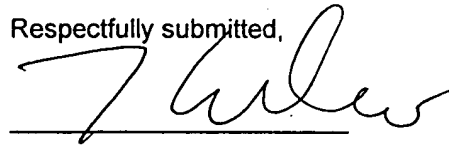
**ANY ADDITIONAL FEES REQUIRED
CHARGE TO DEPOSIT ACCOUNT
NO. 01-0528**

demonstration test were made on August 16, 1999. Invoices for the modules are dated May, 2001.

3. Applicants are not, by making the statements in 1 and 2 above, stating or implying that there are no differences between the modules described in 1 and 2 above and embodiments disclosed in the instant patent application.
4. Descriptions of partially transparent, amorphous silicon solar modules, where the partial transparency is provided by laser ablation of the rear metal contact, appear in monthly progress reports of the Department of Energy's "PV Bonus Two Phase 2 Program". One of Applicants' assignee's predecessor companies was involved with such program, which was in 1998. The undersigned does not have copies of such reports.

If the Examiner has any questions regarding any of the information contained herein, the Examiner is respectfully requested to contact the undersigned.

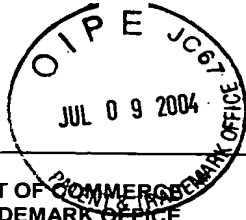
Respectfully submitted,



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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)ATTY. DOCKET NO.
37,23503SERIAL NO.
10/131,859

APPLICANTS

Robert S. Oswald, Shengzhong Liu

FILING DATE

December 2, 2003

GROUP

Unknown

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	8	9	2	5	9	2	01/09/90	Dickson et al.	136	244	
	AB	4	7	2	4	0	1	1	02/09/88	Turner et al.	136	249	
	AC	4	7	2	1	6	2	9	01/26/88	Sakai et al.	427	35	
	AD	5	1	7	6	7	5	8	01/05/93	Nath et al.	136	251	
	AE	4	2	9	2	0	9	2	09/29/81	Joseph J. Hanak	148	1.5	
	AF	5	2	5	4	1	7	9	10/19/93	Ricaud et al.	136	244	
	AG	4	7	9	5	5	0	0	01/03/89	Kishi et al.	136	244	
	AH	6	2	6	5	6	5	2	07/01	Kurata et al.	136	244	
	AI	6	4	5	5	3	4	7	09/02	Hiraishi et al.	438	80	
	AJ	5	4	6	8	6	5	2	11/95	Gee	437	2	
	AK	5	6	9	3	1	8	1	12/97	Bernstein	156	644.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	AL	JP	63	28	9	9	6	9	11/28/88	Japan (Patent Abstract)				
	AM													
	AN													
	AO													
	AP													

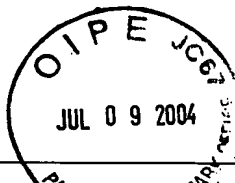
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Article, Ronald D. Schaeffer and Ilias Syrgabaev, Solar Electricity Shines, January 2001 issue of Industrial Laser Solutions, pp. 33-34
	AS	Leppanen, et al., "Manufacturing Options for Large a-Si PV Façade Elements," Engineering Conference, Vienna, Austria, July 6-10, 1998, Vol. 3, July 6, 1998, pp. 2575-2578
	AT	Stark et al., "Konstruktive Varianten Beim Modulaufbau, "Photovoltaik Architektonische Gebaeudeintegration, XX, XX, July 2000, pp. 10-15; 18-19; 25-26 and 32-37.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
37,23503SERIAL NO.
10/131,859LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)APPLICANTS
Robert S. Oswald, Shengzhong LiuFILING DATE
December 2, 2003GROUP
Unknown

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AU	6	4	2	0	2	4	5	07/02	Manor	438	460	
	AV	6	1	3	6	6	6	8	10/00	Tamaki et al.	438	462	
	AW	6	4	4	1	3	0	0	08/27/02	Sannomiya et al.	136	251	
	AX												
	AY												
	AZ												
	BA												
	BB												
	BC												
	BD												
	BE												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	BF													
	BG													
	BH													
	BI													
	BJ													

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	BK		
	BL		
	BM		

EXAMINER

DATE CONSIDERED

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